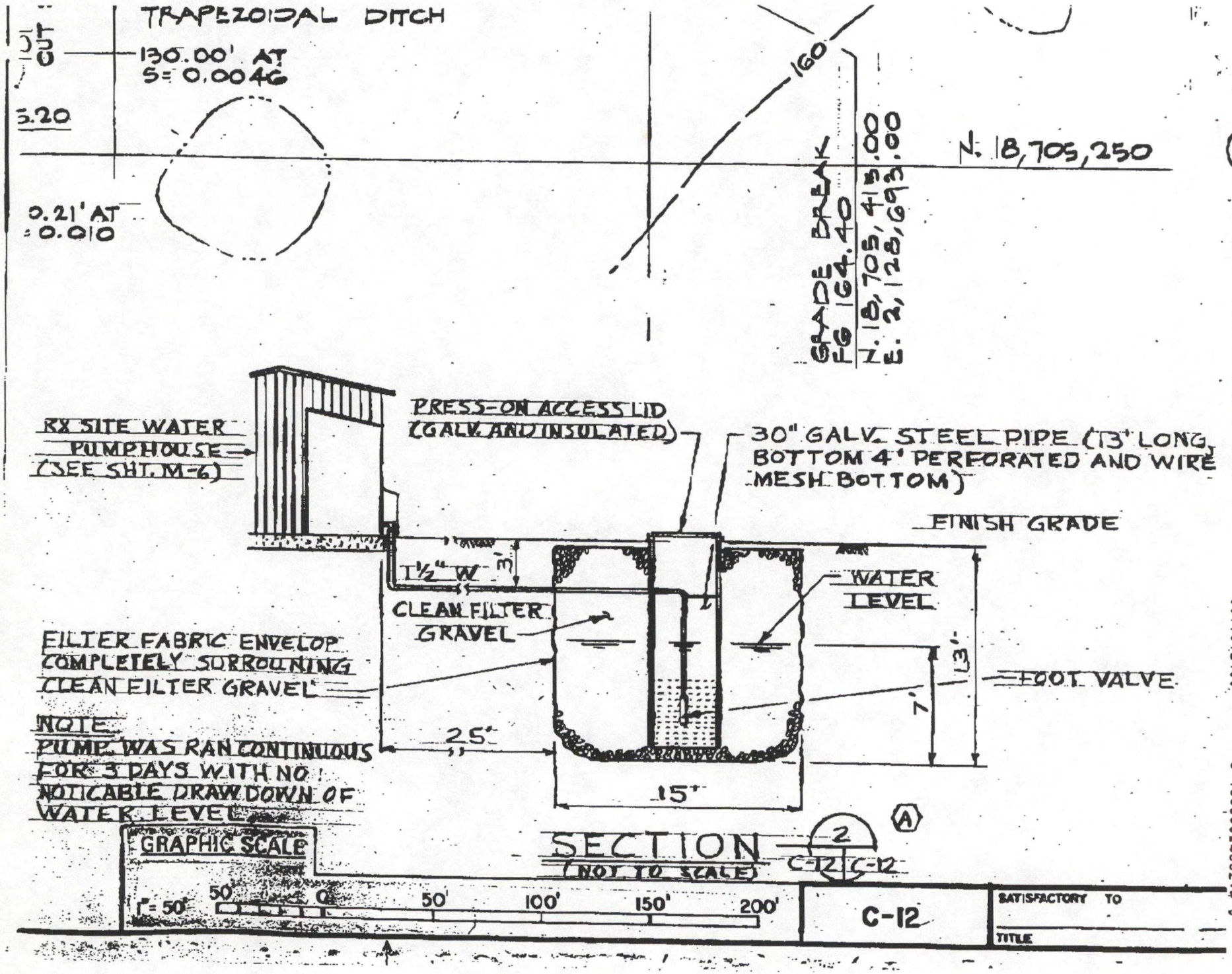
DRINKING WATER WELL DATA



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Note! This well serves a total of 6 people over a 24 hr. period. (2 shifts of 3 people)

INFORMATION ON WATER PUMPHOUSES, AMCHITKA, AK. (2-11-91)

SITE A (LAS 10091, I.D. NO. 262270), Rx SITE, AMCHITKA, AK.

WATER SOURCE CONSISTS OF A SHALLOW WELL APPROXIMATELY 13' DEEP X 30''(GALV'D. STEEL PERFORATED PIPE) WITH APPROXIMATELY 7' OF STANDING WATER. WELL IS LOCATED APPROXIMATELY 25' FROM PUMPHOUSE. WATER IS DRAWN THRU A FOOTVALVE AND A 1-1/2'' PIPE TO THE PUMPHOUSE BY A JET PUMP LOCATED IN THE PUMPHOUSE. FROM THE JET PUMP IT PASSES THRU A GATE VALVE TO AN INCREASER (1-1/2'' TO 2''). WATER THEN PASSES THRU A GATE VALVE, A CHECK VALVE AND THEN TO A STAINLESS STEEL CARTRIDGE FILTER. FROM HERE IT CHARGES A HYDROPNEUMATIC TANK AND IS SODIUM HYPOCHLORINATED BEFORE IT LEAVES THE PUMPHOUSE TO THE VAN SUPPORT FACILITY. THE OLD SYSTEM WHICH DREW WATER FROM A STILL POND AND USED A VERTICAL TURBINE PUMP IS NOW USED AS A BACKUP UNIT. BELOW IS INFORMATION ABOUT THE PARTICULAR PIECES OF EQUIPMENT;

PRIMARY PUMP- GOULD JET PUMP, 20 GPM AT 50 TDH, 3/4 HP, 3450 RPM, 1 PHASE, 230 V.

BACKUP PUMP- BYRON JACKSON FOUR STAGE 5.5 GL VERTICAL TURBINE, 20 GPM AT 51' TDH, 3 HP, 1760 RPM, 3 PHASE, 230 V.

STAINLESS STEEL CARTRIDGE FILTER- UPFLOW CARTRIDGE FILTER, MODEL HIF (BY HARMSCO), USES 14-2'' FILTERS.

CHLORINATION PUMP- LIQUID METRONINGS, MODEL A-14.

SITE B (LAS 10092, I.D. NO. 262262), Tx SITE, AMCHITKA, AK.

A RESERVOIR HOLDS WATER THAT APPEARS TO BE FLOWING FROM DRAINAGE STREAMS ABOVE RESERVOIR. WATER IS THEN PIPED BY GRAVITY TO WATER SUPPLY PUMPHPUSE. TWO PARALLEL CENTRIFICAL PUMPS PUSH WATER TO A 150,000 GAL. WATER STORAGE TANK. THE TOP 18'' OF THE TANK IS USED FOR DOMESTIC WATER AND THE BALANCE IS HELD IN RESERVE FOR FIRE WATER. FROM THE TANK WATER IS FEED BY GRAVITY TO TWO PARALLEL CENTRIFICAL PUMPS IN THE WATER PUMPHOUSE THAT PROVIDE PRESSURE TO THE DISTRIBUTION SYSTEM. BEFORE LEAVING THE PUMPHOUSE A HYDROPNEUMATIC TANK IS PRESSURIZED AND THE WATER IS SODIUM HYPOCHLORINATED. BELOW IS INFORMATION ABOUT PARTICULAR PIECES OF EQUIPMENT;

WATER SUPPLY PUMPHOUSE- DUPLEX PUMPING SYSTEM (2 PACO PUMPS, 7.5 HP, 3 PHASE, 3510 RPM, 220 V, 50 GPM AT 164' TDH, 6.3' DIA. IMPELLORS)

WATER STORAGE TANK- 150,000 GALLON CAPACITY (36' DIA X 24' HIGH, 20' OF WATER IN TANK BUT ONLY APPOX TOP 18' USED FOR